

Form PTO 1449 (Modified)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		DOCKET NO.	SERIAL NO.		
				9491-053-27 DIV	09/854,816		
		APPLICANT		Andrew C. BRAISTED, et al.			
		FILING DATE	GROUP ART UNIT				
		May 15, 2001	1654				
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<i>dk</i>	AA	5,141,867	08/25/92	Ivanoff, et al.			
<i>dk</i>	AB	5,440,013	08/08/95	Kahn			
<i>dk</i>	AC	5,464,933	11/07/95	Bolognesi, et al.			
<i>dk</i>	AD	5,508,382	04/16/96	Ohsaki, et al.			
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY		TRANSLATION YES NO	
<i>dk</i>	AE	WO 89/01943	03/09/89	WIPO			
<i>dk</i>	AF	WO 91/15238	10/17/91	WIPO			
<i>dk</i>	AG	WO 91/15512	10/17/91	WIPO			
<i>dk</i>	AH	WO 92/09625	06/11/92	WIPO			
<i>dk</i>	AI	WO 94/02505	02/03/94	WIPO			
<i>dk</i>	AJ	WO 94/03494	2/17/94	WIPO			
<i>dk</i>	AK	WO 94/16109	07/21/94	WIPO			
<i>dk</i>	AL	WO 94/29332	12/22/94	WIPO			
<i>dk</i>	AM	WO 95/31480	11/23/95	WIPO			
<i>dk</i>	AN	WO 95/34312	12/21/95	WIPO			
<i>dk</i>	AO	WO 96/19495	06/27/96	WIPO			
<i>dk</i>	AP	WO 96/20953	07/11/96	WIPO			
<i>dk</i>	AQ	WO 96/40191	12/19/96	WIPO			
<i>dk</i>	AR	WO 97/00267	01/03/97	WIPO			
<i>dk</i>	AS	WO 97/12988	04/10/97	WIPO			
OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)							
<i>dk</i>	AT	Fox, J., BIO/TECHNOLOGY, Vol. 12, page 128 (1994)					
<i>dk</i>	AU	Stein, et al., "Clinical Infectious Diseases," Vol. 17, pp. 749-771 (1993)					
EXAMINER	<i>David L. Kukljen</i>			DATE CONSIDERED <u>10/6/06</u>			
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OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)			
DJ	AV	Akke, et al., "Three-Dimensional Solution Structure of Calbindin D _{9k} ", Techniques in Protein Chemistry II, Villafranca, J., San Diego: Academic Press, pp. 401-408 (1991)	
DJ	AW	Atherton, et al., "Solid Phase Peptide Synthesis using N _α -Fluorenylmethoxycarbonylaminoo Acid Pentafluorophenyl Esters", J. Chem. Soc. Chem. Commun., pp. 165-166 (1985)	
DJ	AX	Aue, et al., "Two-dimensional spectroscopy. Application to nuclear magnetic resonance", J. Chem. Phys., Vol. 64, pp. 2229-2246 (1976)	
DJ	AY	Bax, et al., "MLEV-17-Based Two-Dimensional Homonuclear Magnetization Transfer Spectroscopy", J. Magn. Reson., Vol. 65, pp. 355-360 (1985)	
DJ	AZ	Berman, et al., "Neutralization of Multiple Laboratory and Clinical Isolates of Human Immunodeficiency Virus Type 1 (HIV-1) by Antisera Raised against gp120 from the MN Isolate of HIV-1", Journal of Virology, Vol. 66, pp. 4464-4469 (1992)	
DJ	BA	Bernstein, et al., "The Protein Data Bank: A Computer-based Archival File for Macromolecular Structures", J. Mol. Biol., Vol. 112, pp. 535-542 (1977)	
DJ	BB	Blacklow, et al., "A trimeric subdomain of the Simian Immunodeficiency Virus Envelope Glycoprotein", Biochemistry, Vol. 34, pp. 14955-14962 (1995)	
DJ	BC	Bodenhausen et al., "Selection of Coherence-Transfer Pathways in NMR Pulse Experiments", J. Magn. Reson., Vol. 58, pp. 370-388 (1984)	
DJ	BD	Bothner-By, et al., "Structure Determination of a Tetrasaccharide: Transient Nuclear Overhauser Effects in the Rotating Frame", J. Am. Chem. Soc., Vol. 106, pp. 811-813 (1984)	
DJ	BE	Bracken, et al., "Synthesis and nuclear magnetic resonance structure determination of an α -helical, bicyclic, lactam-bridged hexapeptide", J. Am. Chem. Soc., Vol. 116, pp. 6431-6432 (1994)	
DJ	BF	Braunschweiler, et al., "Coherence Transfer by Isotropic Mixing: Application to Proton Correlation Spectroscopy", J. Magn. Reson., Vol. 53, pp. 521-528 (1983)	
DJ	BG	Brown, et al., "Helix-Coil Transition of the Isolated Amino Terminus of Ribonuclease", Biochemistry, Vol. 10, pp. 470-476 (1971)	
DJ	BH	Bullough, et al., "Structure of influenza haemagglutinin at the pH membrane fusion", Nature, Vol. 371, pp. 37-43 (1994)	
DJ	BI	Callewaert, et al., "The Disulphide Bridges of Apamin", FEBS Letters, Vol. 1, pp. 111-113 (1968)	
DJ	BJ	Carr, et al., "A Spring-Loaded Mechanism for the Conformational Change of Influenza Hemagglutinin", Cell, Vol. 73, pp. 823-832 (1993)	
DJ	BK	Cavanagh, et al., "Suppression of Cross-Relaxation Effects in TOCSY Spectra via a Modified DIPSI-2 Mixing Sequence", J. Magn. Reson., Vol. 96, pp. 670-678 (1992)	
DJ	BL	Chan, et al., "Core Structure of gp41 from the HIV Envelope Glycoprotein", Cell, Vol. 89, pp. 263-273 (1997)	
EXAMINER	David Luckman		DATE CONSIDERED 10-6-06
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D	BM	Chen, et al., "A Molecular Clasp in the Human Immunodeficiency Virus (HIV) Type 1 TM Protein Determines the Anti-HIV Activity of gp41 Derivatives: Implication for Viral Fusion", Journal of Virology, Vol. 69, pp. 3771-3777 (1995)	
D	BN	Chorev, et al., "Cyclic parathyroid hormone related protein antagonists: Lysine 13 to aspartic acid 17 (i to (i +4)) side chain to side chain lactamization", Biochemistry, Vol. 30, pp. 5968-5974 (1991).	
D	BO	Edelhoch, "Spectroscopic Determination of Tryptophan and Tyrosine in Proteins", Biochemistry, Vol. 6, pp. 1948-1954 (1967).	
D	BP	Fahey, et al., Clin. Exp. Immunology, Vol. 88, pp. 1-5 (1992)	
D	BQ	Fass, et al., "Retrovirus envelope domain at 1.7 angstrom resolution", Nature, Vol. 3, pp. 465-468 (1996)	
D	BR	Fields, et al., "Solid phase peptide synthesis utilizing 9-fluorenylmethoxycarbonyl amino acids", Int. J. Peptide Protein Res., Vol. 35, pp. 161-214 (1990)	
D	BS	Gao, et al., "Molecular Cloning and Analysis of Functional Envelope Genes from Human Immunodeficiency Virus Type I Sequence Subtypes A through G", Journal of Virology, Vol. 70, pp. 1651-1667 (1996)	
D	BT	Habermann, et al., "Zur Biochemie der Bienengiftpeptide Melittin und Apamin", Biochemische Zeitschrift, Vol. 343, pp. 192-203 (1965)	
D	BU	Haigwood, et al., "Native but Not Denatured Recombinant Human Immunodeficiency Virus Type 1 gp120 Generates Broad-Spectrum Neutralizing Antibodies in Baboons", Journal of Virology, Vol. 66, pp. 172-182 (1992)	
D	BV	Harper, et al., "Helix Stop Signals in Proteins and Peptides: The Capping Box", Biochemistry, Vol. 32, pp. 7605-7609 (1993)	
D	BW	Haynes, et al., "Conversion of an immunogenic human immunodeficiency virus (HIV) envelope synthetic peptide to a tolerogen in chimpanzees by the fusogenic domain of HIV gp41 envelope protein", Journal of Experimental Medicine, Vol. 177, pp. 717-727 (1993)	
D	BX	Houston Jr., et al., "Lactam bridge stabilization of α -helical peptides: ring size, orientation and positional effects", J. Peptide Science, Vol. 1, pp. 274-282 (1995)	
D	BY	Jackson, et al., "General approach to the synthesis of short α -helical peptides", J. Am. Chem. Soc., Vol. 113, pp. 9391-9392 (1991)	
D	BZ	Jiang, et al., "HIV-1 inhibition by a peptide", Nature, Vol. 365, p. 113 (1993)	
D	CA	Jiang, et al., "Inhibition of HIV-1 Infection by a Fusion Domain Binding Peptide from the HIV-1 Envelope Glycoprotein GP41", Biochemical and Biophysical Research Communications, Vol. 195, pp. 533-538 (1993)	
D	CB	Johnson Jr., et al., "Circular Dichroism of Polypeptide Solutions in the Vacuum Ultraviolet", J. Am. Chem. Soc., Vol. 94, pp. 4389-4390 (1972)	
D	CC	Kaiser, et al., "Color Test for Detection of Free Terminal Amino Groups in the Solid-Phase Synthesis of Peptides", Analytical Biochemistry, Vol. 34, pp. 595-598 (1970)	
EXAMINER	<i>David Lukken</i>		DATE CONSIDERED <u>10/6/06</u>
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<i>D.L.</i>	CD	Kumar et al., "A Two-Dimensional Nuclear Overhauser Enhancement (2D NOE) Experiment for the Elucidation of Complete Proton-Proton Cross-Relaxation Networks in Biological Macromolecules", Biochem. & Biophys. Res. Comm., Vol. 95, pp. 1-6 (1980)	
<i>D.L.</i>	CE	Lawless, et al., "HIV-1 Membrane Fusion Mechanism: Structural Studies of the Interactions between Biologically-Active Peptides from gp41", Biochemistry, Vol. 35, pp. 13697-13708 (1996)	
<i>D.L.</i>	CF	Lu, et al., "A trimeric structural domain of the HIV-1 transmembrane glycoprotein", Nature, Vol. 2, No. 12, pp. 1075-1082 (1995)	
<i>D.L.</i>	CG	Lupas, et al., "Predicting Coiled Coils from Protein Sequences", Science, Vol. 252, pp. 1162-1164 (1991)	
<i>D.L.</i>	CH	Lyu, et al., " α -Helix stabilization by natural and unnatural amino acids with alkyl side chains", Proc. Natl. Acad. Sci. USA, Vol. 88, p. 5317-5320 (1991)	
<i>D.L.</i>	CI	Marion, et al., "Application of Phase Sensitive Two-Dimensional Correlated Spectroscopy (COSY) for Measurements of ^1H - ^1H Spin-Spin Coupling Constants in Proteins", Biochem. & Biophys. Res. Comm., Vol. 113, pp. 967-974 (1983)	
<i>D.L.</i>	CJ	Marqusee, et al., "Usually stable helix formation in short alanine-based peptides", Proc. Natl. Acad. Sci. USA, Vol. 86, pp. 5286-5290 (1989)	
<i>D.L.</i>	CK	Merrifield, R.B., "Solid Phase Peptide Synthesis. I. The Synthesis of a Tetrapeptide", J. Am. Chem. Soc., Vol. 85, pp. 2149-2154 (1963)	
<i>D.L.</i>	CL	Osapay, et al., "Multicyclic polypeptide model compounds. 1. Synthesis of a trycyclic amphiphilic α -helical peptide using an oxime resin, segment-condensation approach", J. Am. Chem. Soc., Vol. 112, pp. 6046-6051 (1990)	
<i>D.L.</i>	CM	Osapay, et al., "Multicyclic polypeptide model compounds. 2. Synthesis and conformational properties of a highly α -helical uncospapeptide constrained by three side-chain to side-chain lactam bridges", J. Am. Chem. Soc., Vol. 114, pp. 6966-6973 (1992)	
<i>D.L.</i>	CN	Phelan, et al., "A General Method for Constraining Short Peptides to an α -Helical Conformation", J. Am. Chem. Soc., Vol. 119, pp. 455-460 (1997)	
<i>D.L.</i>	CO	Rabenstein, et al., "HIV-1 gp41 Tertiary Structure Studied by EPR Spectroscopy" Biochemistry, Vol. 35, pp. 13922-13928 (1996)	
<i>D.L.</i>	CP	Rance, "Improved Techniques for Homonuclear Rotating-Frame and Isotropic Mixing Experiments", J. Magn. Reson., Vol. 74, pp. 557-564 (1987)	
<i>D.L.</i>	CQ	Ravi, et al., "Cyclic peptide disulfides. Solution and Solid-State Conformation of Boc-Cys-Pro-Aib-Cys-NHMe, a Disulfide-Bridged Peptide Helix", J. Am. Chem. Soc., Vol. 105, pp. 105-109 (1983)	
<i>D.L.</i>	CR	Salmon-Ceron, et al., "Safety and Immunogenicity of a Recombinant HIV Type 1 Glycoprotein 160 Boosted by a V3 Synthetic Peptide in HIV-Negative Volunteers", Aids Res. And Human Retroviruses, Vol. 11, pp. 1479-1486 (1995)	
EXAMINER <i>David Lubetkin</i>		DATE CONSIDERED 10/6/06	
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<i>DR</i>	CS	Schollkopf et al., "Enantioselective Synthesis of (R)-Amino Acids Using L-Valine as Chiral Agent", Angew. Chem. Int. Ed. Engl., Vol. 20, pp. 798-799 (1981)	
<i>DR</i>	CT	Shipolini, et al., "The Structure of Apamin", Chem. Commun., pp. 679-680 (1967)	
<i>DR</i>	CU	Shugars, et al., "Biophysical Characterization of Recombinant Proteins Expressing the Leucine Zipper-Like Domain of the Human Immunodeficiency Virus Type 1 Transmembrane Protein gp41", Journal of Virology, Vol. 70, pp. 2982-2991 (1996)	
<i>DR</i>	CV	Skelton, et al., "Determination of the Solution Structure of the Peptide Hormone Guanylin: Observation of a Novel Form of Topological Stereoisomerism", Biochemistry, Vol. 33, pp. 13581-13592 (1994)	
<i>DR</i>	CW	Weiner, et al., "An All Atom Force Field for Simulations of Proteins and Nucleic Acids", J. Comp. Chem., Vol. 7, pp. 230-252 (1986)	
<i>DR</i>	CX	Weiner, et al., "A New Force Field for Molecular Mechanical Simulation of Nucleic Acids and Proteins", J. Am. Chem. Soc., Vol. 106, pp. 765-784 (1984)	
<i>DR</i>	CY	Wild, et al., "Peptides corresponding to a predictive α -helical domain of human immunodeficiency virus type 1 gp41 are potent inhibitors of virus infection", Proc. Natl. Sci. USA, Vol. 91, pp. 9770-9774 (1994)	
<i>DR</i>	CZ	Wild et al., "Propensity for a leucine zipper-like domain of human immunodeficiency virus type 1 gp41 to form oligomers correlates with a role in virus-induced fusion rather than assembly of the glycoprotein complex", Proc. Natl. Acad. Sci., USA, Vol. 91, pp. 12676-12680 (1994)	
<i>DR</i>	DA	Wild et al., "A synthetic peptide inhibitor of human immunodeficiency virus replication: Correlation between solution structure and viral inhibition", Proc. Natl. Acad. Sci. USA, Vol. 89, pp. 10537-10541 (1992)	
<i>DR</i>	DB	Zhang et al., "HIV-1 subtype and second-receptor use", Nature, Vol. 383, p 768 (1996)	
<i>DR</i>	DC	Zhang et al., "Synthetic CD4 exocyclics inhibit binding of human immunodeficiency virus type 1 envelope to CD4 and virus replication in T lymphocytes", Nature Biotechnology, Vol. 15, No. 2, pp. 150-154 (1997)	
EXAMINER	<i>David R. Hansen</i>		DATE CONSIDERED <u>10/6/06</u>

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